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Energy Academic Group Policy and Analysis

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ENERGY ACADEMIC GROUP

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POLICY AND ANALYSIS

Energy research at the Naval Postgraduate School in the area of Policy and Analysis (P&A) is most often found in the Graduate School of Business & Public Policy (GSBPP) and the Graduate School of Operational and Information Sciences (GSOIS). Energy P&A research in GSOIS can be found in several different departments, including Computer Science, Defense Analysis, Information Sciences, and Operations Research. The P&A research projects highlighted on this website illustrate the wide expertise of GSBPP and GSOIS faculty.

Hide all

Examples of NPS P&A Research Relevant to Energy

- [Steaming on Convex Hulls](#)
Prof Kline, Prof J. Brown, Prof Rosenthal, Prof Washburn – Operations Research Dept.
- [Cost Benefit-Analysis of Energy Demonstrations](#)
Prof Nussbaum, Prof Regnier, Prof Franck- Operations Research Dept, Defense Resources Management Institute, Graduate School Of Business And Public Policy & Department Of Systems Engineering.
- [Fully Burdened Cost of Fuel](#)
Prof Nussbaum – Operations Research Dept.
- [Defending Interdependent Infrastructure Systems](#)
Prof Baldick (U. Texas at Austin), Prof Alderson, Prof Salmeron, Prof Wood - Operations Research Dept.
- [Real-Time Dispatch of Petroleum Tank Trucks](#)
Prof G. Brown, Prof G. Graves - Operations Research Dept.
- [Assessing Risk and Identifying How to Improve Resilience of the Energy Supply Chain in the Pacific Theatre](#)
Prof Alderson, Prof G Brown, Prof Rob Dell, Prof Nussbaum- Operations Research Dept.

Recent NPS Theses and Dissertations Relevant to Energy P&A

- [A Cost-Benefit Analysis of Smart Power Infrastructure Demonstration for Energy Reliability and Security \(SPIDERS\)](#)
Leewright, Nussbaum - Operations Research Dept.
- [Making the Surface Fleet Green The DOTMLPF, Policy, and Cost Implications of Using Biofuel in Surface Ships](#)
Beads, Nussbaum, Fast - GSBPP
- [Analysis of Implementing Lifetime Energy Cost, Including Fully Burdened Cost of Fuel and Energy Footprints of Contractors, as Mandatory Decision Factors in Navy Acquisition](#)
Murphy, Wilson, Kidalov, Yoder - GSBPP
- [Possible Effects of the Department of Defense Acting as a Buyer on the Derivatives Futures Market](#)
Bowman, Wright, Brook, Hensel, Summers - GSBPP
- [Should the Department of Defense Hedge Oil Prices in Order to Save Money?](#)
Knapp, Hudgens, Dew - GSBPP
- [A BCA for Transitioning the USN from Petroleum to Synthetic Fuel](#)
Dr. D. Nussbaum, LCDR M. Benedetto - Operations Research Dept.
- [A Cost Estimation Analysis of US Navy Ship Fuel-Savings Techniques and Technologies](#)
Fanta, Nussbaum, Kline, Operations Research Dept.

QUICK LINKS

ESTEP

NPS is a key member of the Energy System Technology Evaluation Program (ESTEP) Program funded by the Office of Naval Research (ONR). Read more about the [Energy Systems Technology Evaluation Program \(ESTEP\)](#).

Fonte, Nussbaum, Nune - Operations Research Dept.

- [Determining the Return of Energy Efficiency Investments in Domestic and Deployed Military Installations](#)
Gammache, Nussbaum, Coughlan - Operations Research Dept. & GSBPP
- [Net Zero Plus: Conducting a Business Case Analysis](#)
Ong, Nussbaum, Nolan - Operations Research Dept.
- [Estimating the Fully Burdened Cost of Fuel for a Naval Aviation Fixed Wing Platform](#)
Truckenbrod, Nussbaum, San Miguel - Operations Research Dept. & GSBPP.
- [Evaluating the Impact of the Fully-Burdened Cost of Fuel in Trade Space Analysis](#)
Corley, Nussbaum, Burton - Operations Research Dept.
- Comparative Analysis of Podded versus Mechanically-Driven Propulsion
Riendeau, Nussbaum - Operations Research Dept.
- [A Methodological Approach for Conducting a Base Case Analysis for the Global Observer \(JCTD\)](#)
Thiow Yong Dennis, Lim, Nussbaum, Lin - Operations Research Dept. & DSTA
- [Geothermal HVAC: A Business Case Analysis](#)
Trahan, Nussbaum, Brygider - Operations Research Dept.
- [A Cost Estimation of Biofuel for Naval Aviation: Budgeting for the Great Green Fleet](#)
Callahan, Nussbaum- Operations Research Dept.
- [Batteries on the Battlefield: Developing a Methodology to Estimate the Fully-Burdened Cost of Batteries in the DOD](#)
Kaiper, Nussbaum- Operations Research Dept.
- [Fully-Burdened Cost of Fuel using Input-Output Analysis](#)
John Hills and Sean Dubbs
- [The Impact of Rechargeable Batteries](#)

Brown, Nussbaum - Operations Research Dept.
- [Shipboard LED Lighting: A Business Case Analysis](#)
Cizek, Christopher J. - GSBPP

In Progress NPS Theses and Dissertations Relevant to Energy P&A

- Hybrid Renewable and Distributed Power Design
Harvey, Nussbaum- Operations Research Dept.

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